

## **REMARKS - General**

By the above amendment, applicants have rewritten or cancelled their claims to define the invention more particularly and distinctly so as to overcome the technical rejections and define the invention patentably over the prior art.

### **The Rejection of Claims Under 35 U.S.C. § 112**

The last O.A. rejected claims 15-23 under 35 U.S.C. § 112 on the grounds that these claims were indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. In particular, as to claim 15 step b, the last O.A. rejected the expression "injection molding ceramic mold insert" as vague, asserting there was no positive step to show how the insert was being injected.

Accordingly, applicants have rewritten their claims by matching their wording with that employed by Amaya et al (U.S. 5,976,457), save where the substance of applicants' invention requires to specifically distinguish over the latter and submit that the specification now complies with § 112.

### **The Rejection of Claims Under 35 U.S.C. § 102**

The last O.A. rejected independent claim 15 and dependent claims 18-23 as being anticipated by Amaya et al (U.S. 5,976,457).

Applicants respectfully beg to differ with the Examiner on this point based on following facts:

1. Molds having ceramic inserts are known to the prior art (e.g. Pluim, U.S. 4,704,079).

2. Amaya et al (U.S. 5,976,457) are persons skilled in the art of metal injection molding.
3. Skill in metal injection molding is not intrinsically concomitant with skill in ceramic injection molding, the latter requiring more specialized skills owing to the radically different properties, powder morphology and processibility of ceramic materials used in ceramic injection molding.
4. Amaya et al, if not skilled in, are at the least aware of the art of ceramic injection molding and of the advantages held by the use of ceramic molds and mold components.
5. Not anywhere in Amaya et al (U.S. 5,976,457) is there the slightest allusion, word, sentence or mention suggesting or portending the use of ceramic materials for the fabrication of molds and mold components.

In view of above facts, the idea of producing molds and mold components from ceramic materials using the ceramic injection molding process, if it ever occurred, was dismissed by Amaya et al as unfeasible and could, therefore, not have been anticipated, since anticipation implies *a priori* a conviction of latent feasibility.

Hence, the instant invention's use of the ceramic injection molding process to fabricate molds and mold components, rather than by making use of the more costly and secondary operations-fraught metal injection molding process of the prior art, constitutes a novel and more efficient way to produce such articles.

#### **The Rejection of Claims Under 35 U.S.C. § 103**

The last O.A. rejected independent claims 16 and 17 under 35 U.S.C. 103(a) as being unpatentable over Amaya et al (U.S. 5,976,457) in view of Ruhle (U.S. 5,199,482) and

over Amaya et al (U.S. 5,976,457) in view of Williamson et al (U.S. 5,435,959) respectively.

Claims 16 and 17 are now abandoned.

### **Conclusion**

For all of the above reasons, applicants submit that the specification and claims are now in proper form and that the claims all define patentably over the prior art. Therefore they submit that this application is now in condition for allowance, which action they respectfully solicit.

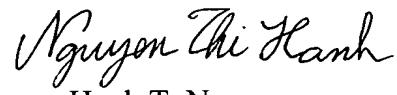
### **Conditional Request For Constructive Assistance**

Applicants have amended the claims of this application so that they are proper, definite and define novel subject matter which is also unobvious. If, for any reason this application is not believed to be in full condition for allowance, applicants respectfully request the constructive assistance of the Examiner pursuant to M.P.E.P. § 2173.02 and § 707.07(j) in order that the undersigned can place this application in allowable condition as soon as possible and without the need for further proceedings.

Very respectfully,



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